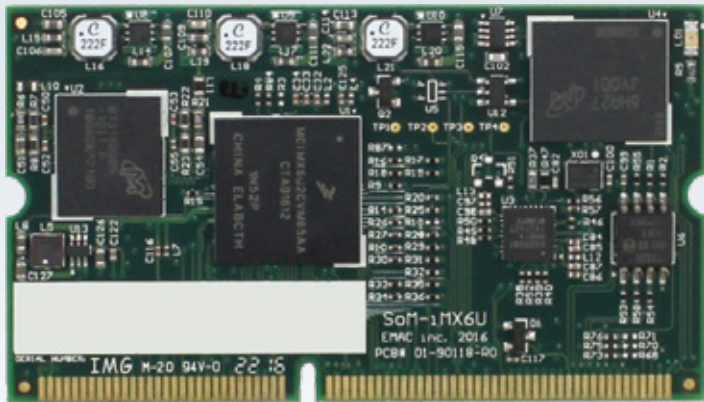


SoM-iMX6U

Embedded System on Module (SoM)



Features

- APM Sleep Mode of 3.5mA
- Freescale/NXP i.MX6 UltraLite (MCIMX6G1)
- Cortex A7 528MHz Processor Speed
- Up to 512MB LP DDR2 RAM
- 4GB eMMC Flash, 16MB Serial Data Flash
- 10/100 Ethernet SPI, I2C, I2S & CAN
- 22x GPIO, 2x USB, 5x Serial Ports, 1x SDIO
- Industrial Temperature -40° to + 85° C



Specifications

Processor	Freescale/NXP i.MX6 UltraLite (MCIMX6G1) Cortex A7 528 MHz
Memory	Up to 512MB of LP DDR2 RAM 4GB of eMMC Flash 16MB of Serial Data Flash
IO	22x GPIO (3.3V Lines) 1x SDIO SD Port 2x I2S Audio Port with Line In/Out 1x CAN Port 1x 10/100 BaseT Ethernet 1x USB 2.0 High Speed Host Port 1x USB 2.0 High Speed OTG (Host/Device) Port 5x Serial Ports (1x with handshake, 4x without handshake) 1x SPI Port 2x Timer/Counters/PWM External Reset Button provision and green Status LED 1x I2C Port
Analog	4x A/D Channels with 12-bit A/D Resolution (0-3.3v)
Bus Expansion	144-pin SODIMM form factor
OS	EMAC OE Linux
Dimensions	2.66" x 1.5"
Power Req.	Typical Running Current 160mA APM Sleep Mode of 3.5mA
Environment	-40° to + 85° C Industrial Temperature 90% Upper Operating Humidity



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System on Module

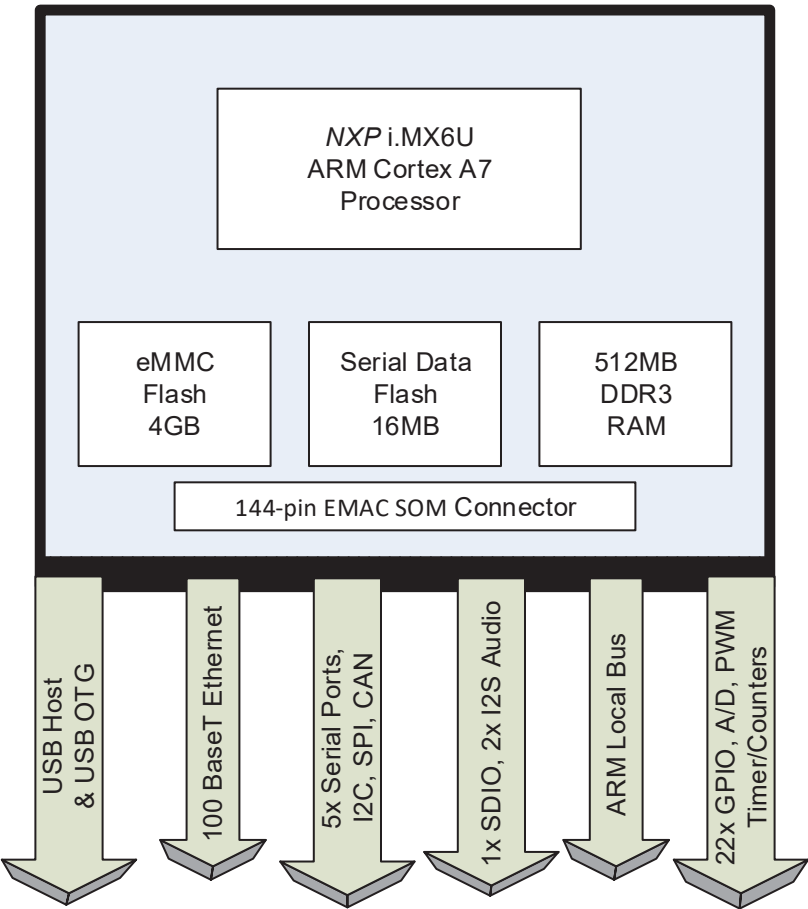
EMAC, inc.

Last Updated: 10-23-23 / Product specifications are subject to change without notice.

Our Products Make Your Products Better®

Internal Real Time Clock/Calendar (with external battery backup)

Block Diagram



Ordering Information

PRODUCT #	CPU	MEMORY	SERIAL	GPIO	USB	ANALOG	LAN	TEMPERATURE
SOM-iMX6U-120	Freescall ARM Cortex A7 IMX6 UltraLite 528 MHz	512MB LP DDR2 64GB eMMC 16MB Serial Flash	5x	22x	1x HS Host 1x HS OTG	4x 12-bit A/D Channels	1x 100/100 Base T Ethernet	-40° to +85° C
SOM-iMX6U-140	Freescall ARM Cortex A7 IMX6 UltraLite 528 MHz	512MB LP DDR2 64GB eMMC 16MB Serial Flash	5x	22x	1x HS Host 1x HS OTG	4x 12-bit A/D Channels	1x 100/100 Base T Ethernet	-40° to +85° C

Carrier Board Options

PRODUCT #	DESCRIPTION
SoM-150ES-000	Standard Carrier Board
SoM-150ES-031	Deluxe Carrier with A/D, D/A, Audio
SoM112ES-131	Deluxe Carrier Audio, Wifi, Bluetooth

